

## **TWO-PART POLYURETHANE ADHESIVES FOR STRUCTURAL FINGER JOINTS AND METHOD THEREFOR**

### **ABSTRACT OF THE DISCLOSURE**

One aspect of the present invention is an adhesive composition formed from two packs. One pack includes an isocyanate-functional prepolymer formed by reacting a polyisocyanate with an alcohol (e.g., polyol). The isocyanate equivalents  
5 from the polyisocyanate exceed the hydroxyl equivalents from the alcohol. The second pack is an aqueous polymer emulsion. These two packs are combined to form the novel adhesive composition. Another aspect of the invention is a method for joining together two surfaces of wood products by application of an adhesive thereto. The first step in this method is to mist with water the wood product surfaces  
10 to be joined. An adhesive composition then is applied to the misted wood product surfaces. Alternatively, the water misting can be replaced with an aqueous emulsion being part of the adhesive composition. Finally, the adhesive composition is cured.